Exam	**300-610**
Title	**Designing Cisco Data Center Infrastructure (300-610 DCID) Exam**
Version	**7.0**
Product Type	**204 Q&A with explanations**

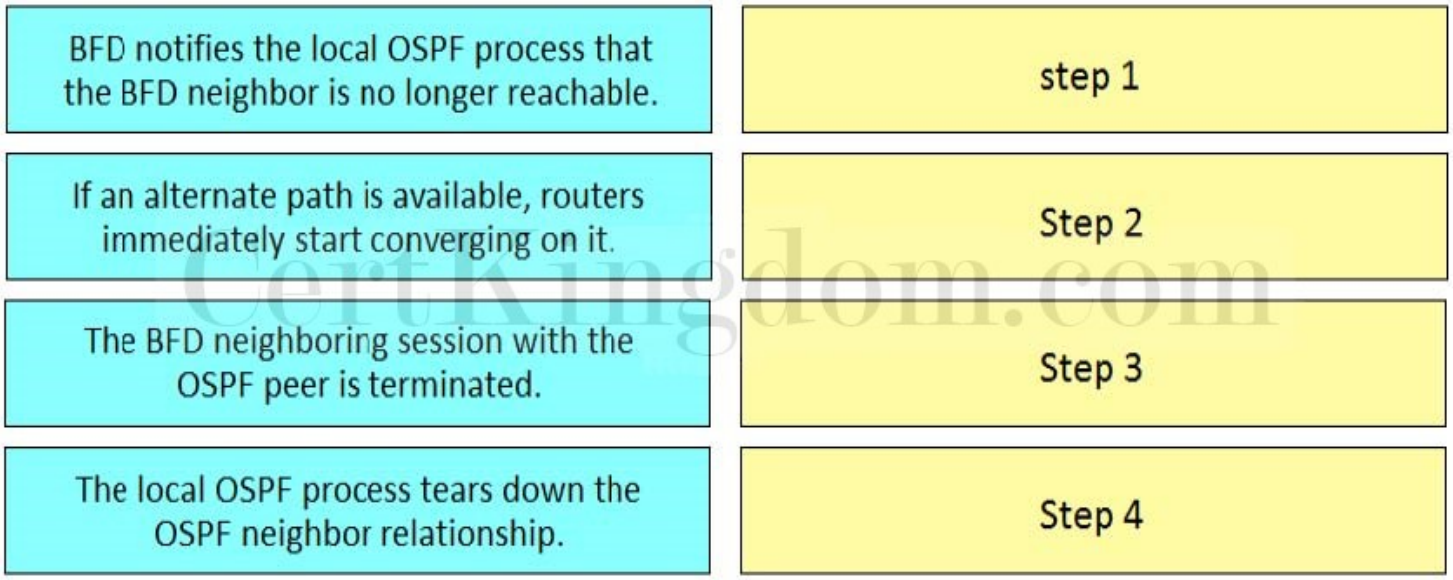
QUESTION 1
What is an advantage of using OTV as compared to VPLS for data center redundancy?

A. prevents loops on point-to-point links
B. provides head-end replication
C. uses a proactive MAC advertisement
D. provides full-mesh connectivity

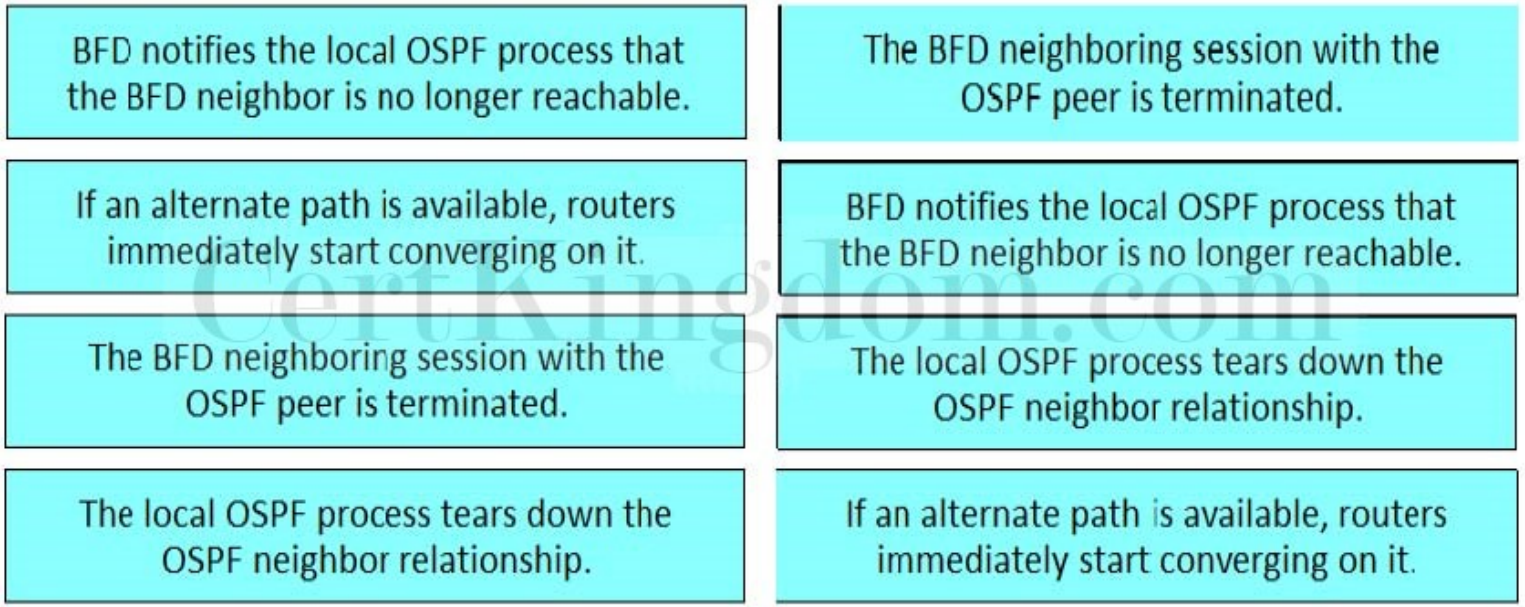
Answer: A

Explanation:
Reference: https://community.cisco.com/t5/data-center-documents/understanding-overlaytransport-virtualization-otv/ta-p1502#toc-hId-1043251551

QUESTION 2
DRAG DROP
A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.



Answer:



Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/ios_0s/feature/guide/fs_bfd.html#wp1238898

QUESTION 3
Which multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

A. Embedded RP
B. Phantom RP
C. MSDP
D. PIM anycast RP

Answer: D

Explanation:

Reference: https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ipmulticast/whitepaper_c11- 508498.html

QUESTION 4
An engineer deploys LISP VM mobility. Which feature is configured on the interfaces that have VM mobility enabled?

A. IP redirects
B. flow control
C. proxy ARP
D. HSRP

Answer: C

Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nxos/lisp/configuration/guide/ b_NX-OS_LISP_Configuration_Guide/b_NXOS_LISP_Configuration_Guide_chapter_010.html

QUESTION 5
What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

A. supports Layer 3 port channels
B. disables spanning-tree
C. no spanning-tree blocked ports
D. uses all available uplink bandwidth
E. maintains single control plane

Answer: C, D

Explanation:
Reference:
https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc_design/vpc_best_practices_design_guide.pdf

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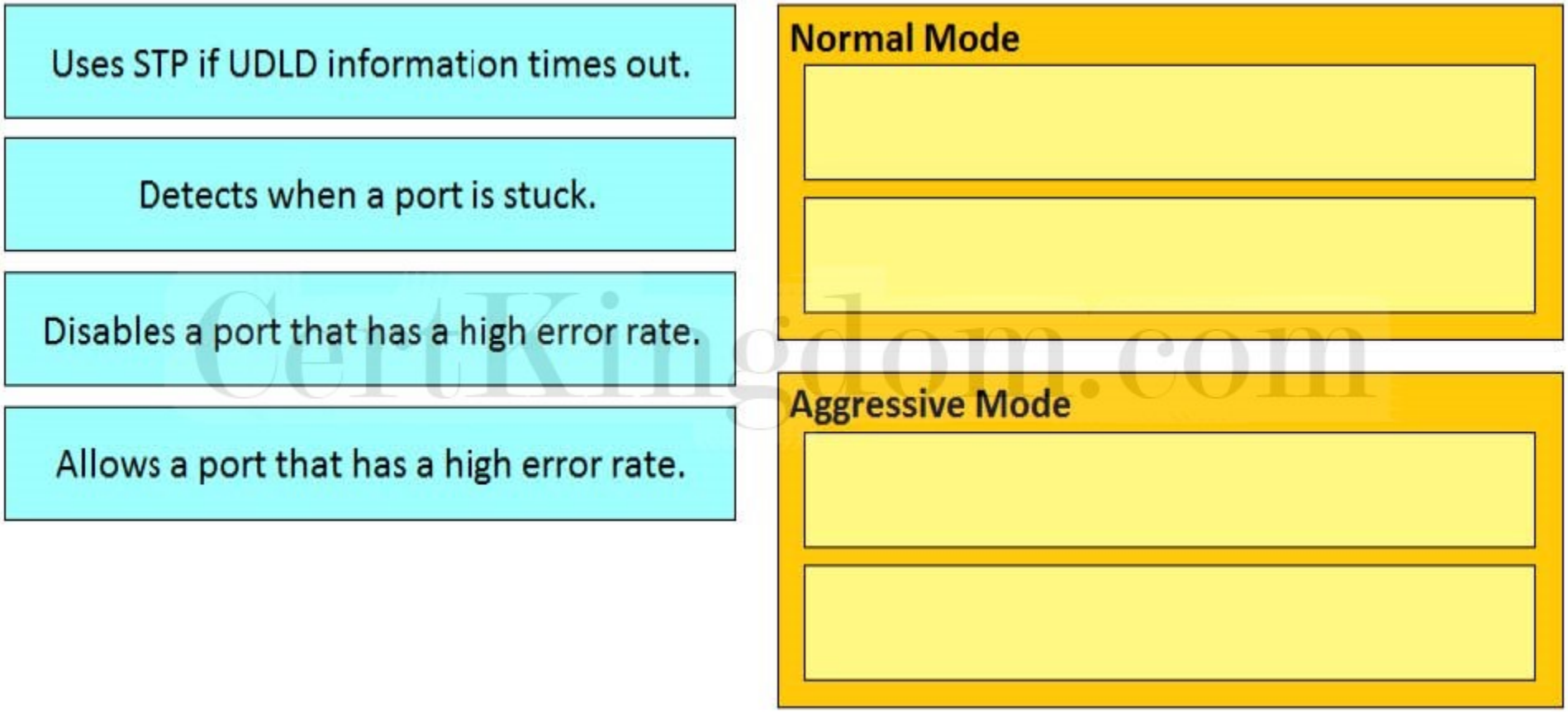
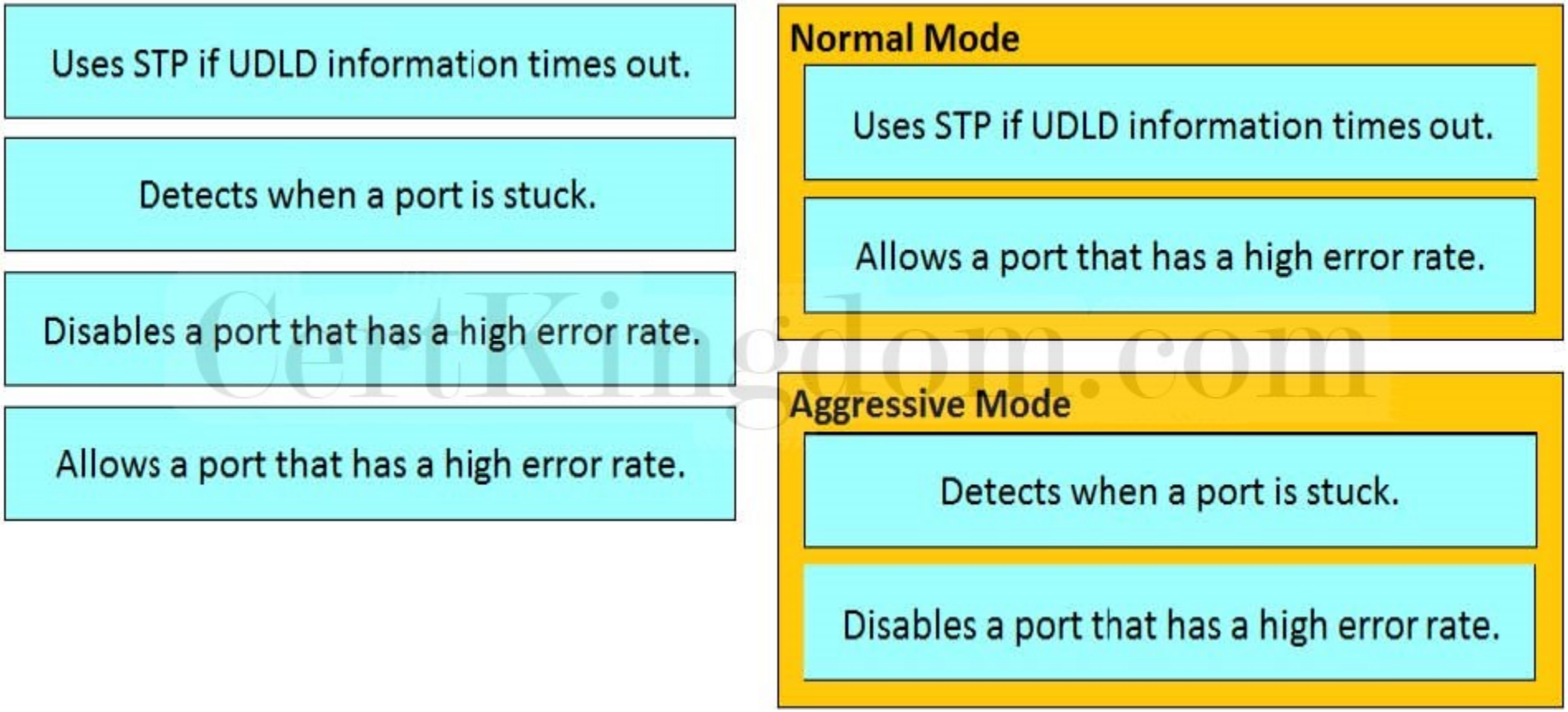
QUESTION 6
DRAG DROP
Drag the appropriate from the left onto the current UDLD modes of operation on the right.



Answer:



Explanation:
Reference: https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-treeprotocol/10591-77.html

QUESTION 7
What is a design consideration when implementing FSPF?

A. Routes are based on the domain ID.
B. Routes are based on the distance vector protocol.
C. FSPF runs only on F Ports.

D. FSPF runs on a per-chassis basis.

Answer: A

Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw_0/configuration/guide
s/ fabric/nxos/cli_fabric/fspf.html

QUESTION 8
Which two features are provided by deploying an OOB management network in a Cisco Nexus data center? (Choose two.)

A. Layer 3 path for monitoring purposes
B. Layer 2 path for server traffic
C. Layer 2 path for a vPC peer link
D. Layer 3 path for vPC keepalive packets
E. Layer 3 path for server traffic

Answer: BC

Explanation:
Reference: https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/Aug2014/CVDQuestions and Answers PDF 7
DataCenterDesignGuide-AUG14.pdf

QUESTION 9
The management of the Cisco Nexus switches is provided over an isolated put-of-band network. The VDC feature is configured on the Cisco Nexus core switches. How is out-of-band management access provided for each VDC?

A. All the VDC have the same out-of-band IP address.
B. Each VDC has a dedicated out-of-band Ethernet management port.
C. Each VDC has a unique out-of-band IP address from the same IP subnet.

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D. Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.

Answer: C

Explanation:

QUESTION 10
Which two configurations allow for routing traffic between two VDCs? (Choose two.)

A. Connect the VDCs to an external Layer 3 device.
B. Cross-connect the ports between the VDCs.
C. Create VRF-aware software infrastructure interfaces.
D. Create a policy map in the default VDC that routes traffic between the VDCs.
E. Create interfaces in the VDC that can be accessed by another VDC.

Answer: A, D

Explanation:
The Cisco NX-OS software does not support direct communication between VDCs on a single physical device. You must make a physical connection from a port allocated to one VDC to a port allocated to the other VDC to allow the VDCs to communicate.

QUESTION 11
Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

A. BFD
B. UDLD
C. MCP
D. LLDP

Answer: B

Explanation:

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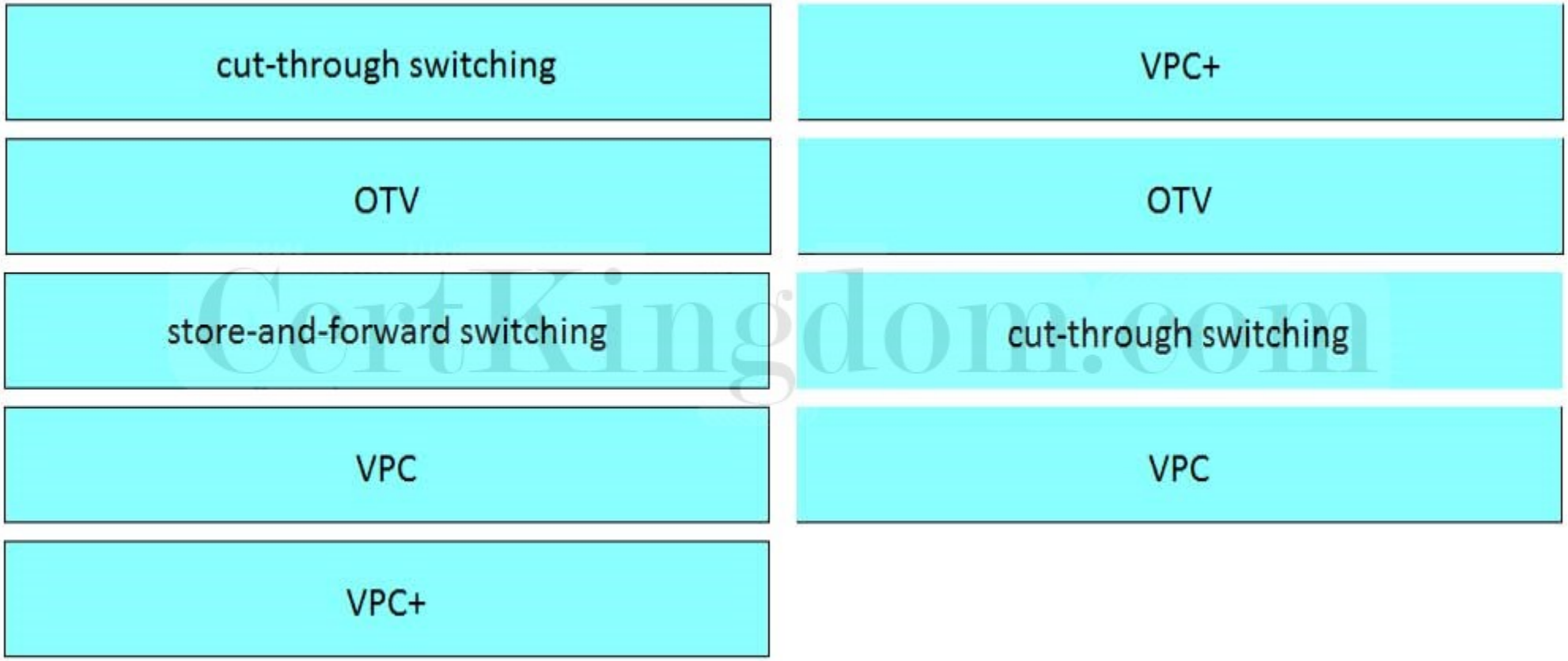
QUESTION 12
DRAG DROP
Drag and drop the data center technologies from the left onto the correct descriptions on the right.
Not all technologies are used.

cut-through switching	connects a classical Etherent vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs device aggregation
VPC+	

Answer:



Explanation:

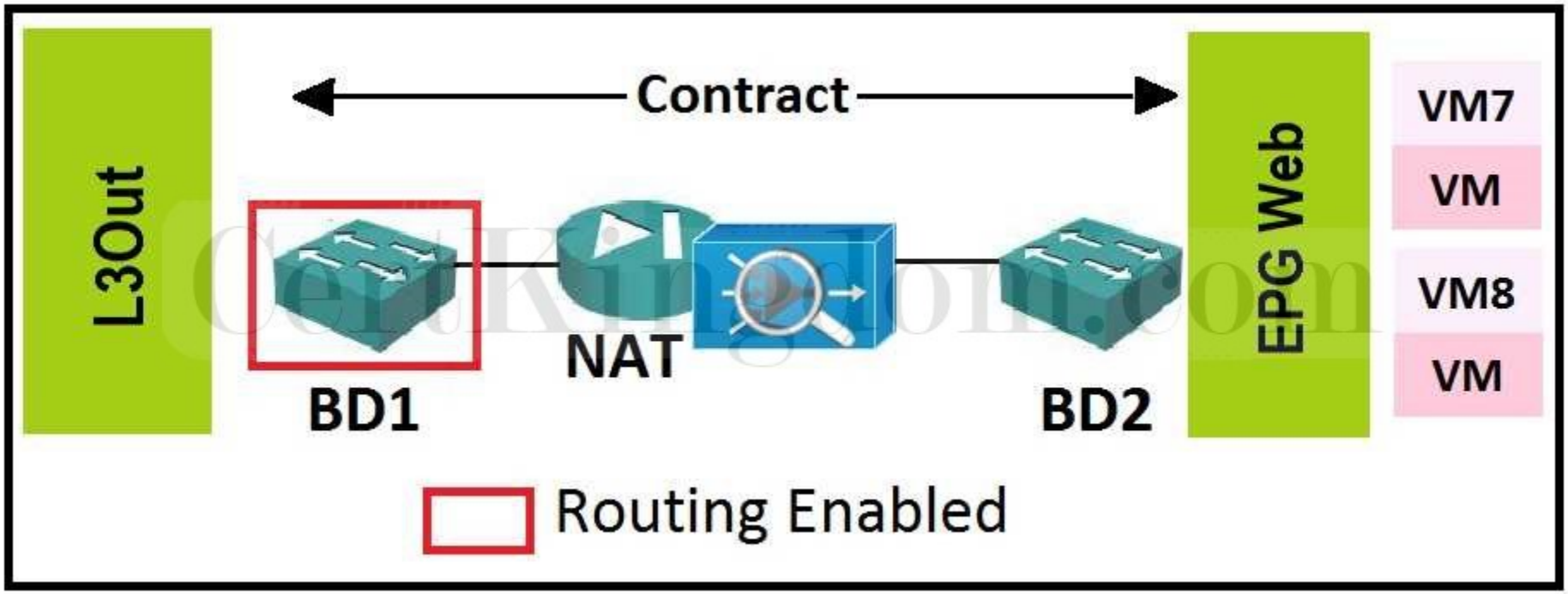
QUESTION 13
What are two characteristics of VRF-Lite on the Cisco NX-OS platform? (Choose two.)

A. Layer 3 interfaces can belong to multiple VRFs.
B. VRF-Lite interfaces can be Layer 2.
C. Overlapping IP addresses are permitted on different VRFs.
D. Interfaces that belong to VRFs can be physical or logical.
E. VRF-Lite interfaces support MPLS.

Answer: CD

Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software_4_1_cg/vrf_cgr1000.html

QUESTION 14
Refer to the exhibit.



What must be the default gateway of the servers in EPG Web?

A. subnet address of BD1

B. subnet address of L3Out
C. subnet address of BD2
D. NAT appliance

Answer: D

Explanation:

QUESTION 15
Which element is the main functional component of the architecture that separates the internal fabric and the external network that connects sites when VXLAN EVPN is deployed multisite?

A. border leaf
B. service leaf
C. border gateway
D. service gateway

Answer: C

Explanation:
Reference: https://dcloud-cms.cisco.com/demo_news/cisco-dcnm-11-3-for-vxlan-evpn-multi-sitedeployments-lab-v1

QUESTION 16
Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

A. VPC+
B. UDLD
C. EVPN
D. OSPF

Answer: C

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Explanation:
A vPC allows links that are physically connected to two different Nexus switches to appear as single portchannel to a server or another switch.

QUESTION 17
When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?

A. BGP ECMP
B. Layer 4 to Layer 7 device package
C. inline load-balancing device
D. ITD

Answer: B

Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw-x/ACI_Best_Practices/ b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0110.html

QUESTION 18
What are two reasons to select OTV as the DCI solution to connect multisite topologies? (Choose two.)

A. It propagates hosts reachability without support of traffic flooding.
B. Layer 3 failures do not propagate beyond the OTV edge device.
C. It extends the spanning tree between data centers.
D. It is an open standard.
E. It constrains HSRP hello messages to each data center.

Answer: B, C

Explanation:
Reference:

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https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro/DCI_1.html

QUESTION 19
Which technology enables Layer 2 extension between remote data center sites?

A. FCIP
B. GRE
C. DMVPN
D. OTV

Answer: D

Explanation:
Reference: https://netcraftsmen.com/spanning-layer-2-between-data-centers/

QUESTION 20
DRAG DROP
Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

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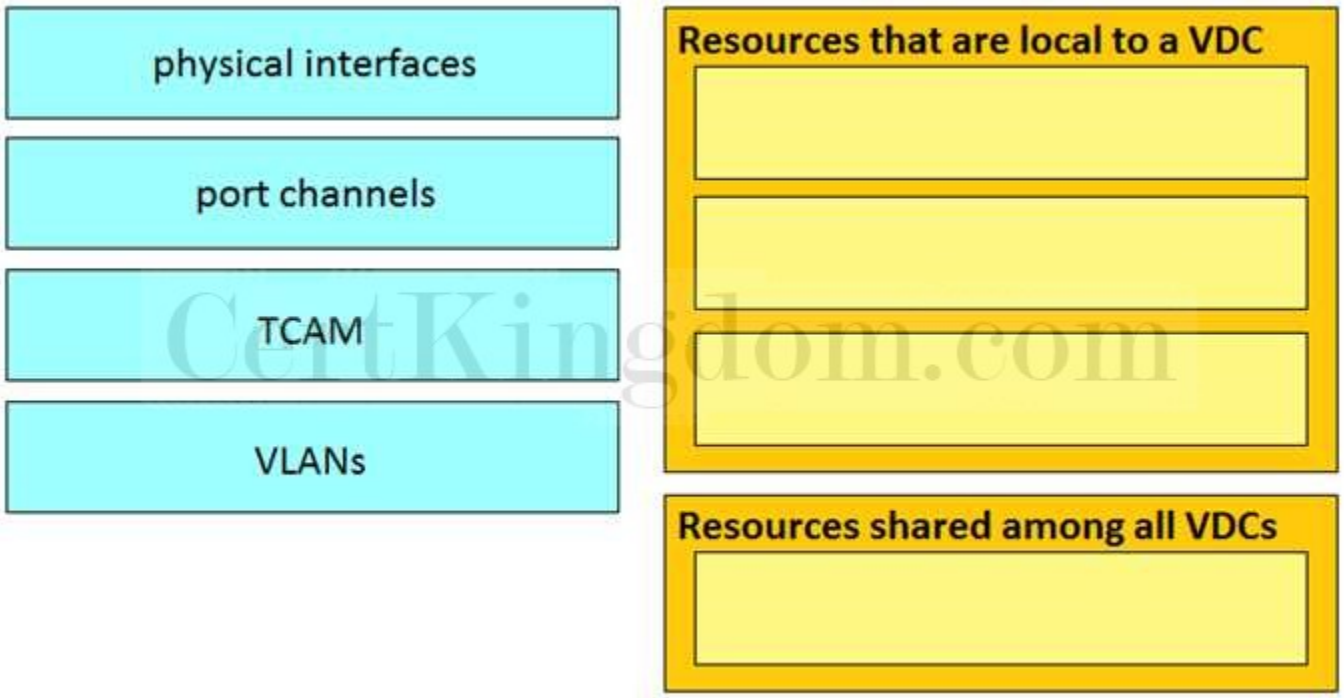

Answer:

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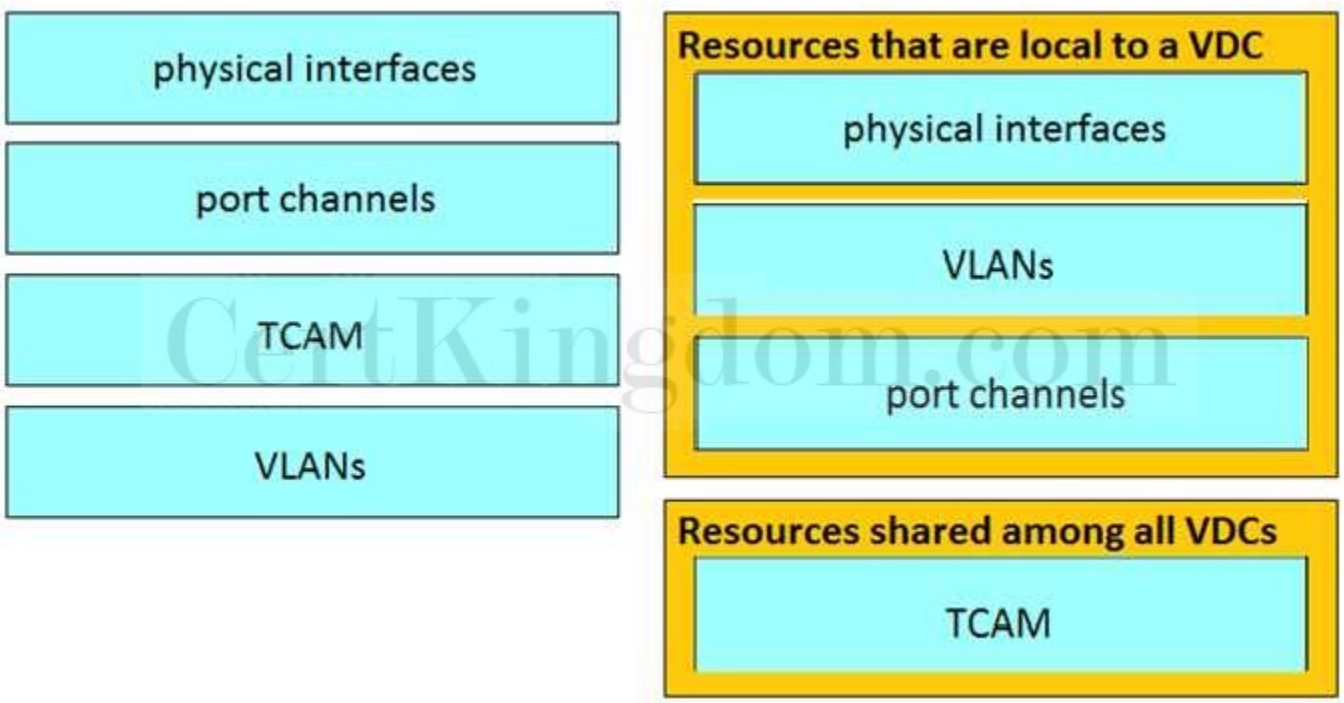

Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nxos/ virtual_device_context/ configuration/guide/b-7k-Cisco-Nexus-7000-Series-NX-OS-Virtual-Device-Context-Configuration-Guide/ creating-vdc.html

QUESTION 21
DRAG DROP
Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.